

Appl. No.: 09/900,283
Amdt. dated February 23, 2005
Reply to Office Action of Dec. 17, 2003

I. AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-32. (Cancelled)

1 33. (New) In an information technology infrastructure where users rely on business services
2 to submit business transactions involving an orderly sequence of application transactions along a
3 plurality of paths of the infrastructure forming aggregates, a method for managing impact of
4 events of the infrastructure on the business services, the method comprising:

5 configuring a management backbone comprising an abstraction layer for intermediate
6 processing, wherein configuring the abstraction layer comprises:

7 installing at least one peer-to-peer domain processor in the infrastructure,
8 configuring the at least one peer-to-peer domain processor with a
9 prepackaged set of event structures, data structures, and rules such
10 that the at least one peer-to-peer domain processor can deliver at
11 least one abstraction service,

12 installing at least one peer-to-peer object directory services processor in
13 the infrastructure, and

14 configuring the at least one peer-to-peer object directory services processor
15 with a pre-packaged set of event structures, data structures, and
16 rules such that the at least one peer-to-peer object directory
17 services processor can deliver at least one object directory service,
18 and

19 wherein configuring the management backbone further comprises:

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20 installing at least one peer-to-peer service processor in the infrastructure,
21 and
22 configuring the at least one peer-to-peer service processor with a pre-
23 packaged set of event structures, data structures, and rules such that
24 the service processor can deliver business impact statements;
25 monitoring the paths used by the application transactions to form monitoring information;
26 monitoring the aggregates to supplement the monitoring information;
27 automatically abstracting the monitoring information into business impact information;
28 using the business impact information to manage the impact of events on the business
29 services;
30 decomposing at least one of the business services into at least one of the business
31 transactions, wherein each of the business transactions branches to at least one site
32 specific instance defined as a site business transaction;
33 decomposing each of the site business transactions into at least one site application
34 transaction;
35 organizing each of the site application transactions into an orderly sequence;
36 defining one of the paths for each of the site application transactions;
37 associating to each of the site application transactions at least one first parameter to
38 remotely submit a sample site application transaction at an associated source
39 location of the infrastructure;
40 associating to each of the site application transactions at least one second parameter to
41 request the management backbone to capture related execution information for
42 each of the sample site application transactions executed at the associated source
43 location of the infrastructure; and
44 defining at least one business user group as a resource dependent on at least one of the
45 site business transactions of the at least one business service.

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34. (New) The method of claim 33, wherein the act of monitoring the paths further comprises remotely submitting sample application transactions at selected source locations while requesting the management backbone to capture execution information along the paths of each application transaction.
35. (New) The method of claim 33, wherein the act of monitoring the aggregates further comprises collating and optionally controlling underlying monitoring threads in conjunction with distributed management policies.
36. (New) The method of claim 35, wherein at least one of the monitoring threads is an indicator.
37. (New) The method of claim 33, wherein the act of using the business impact information to manage the impact of events on the business services further comprises:
translating an availability or a performance impact ascertained for the business transaction on a given location in a business impact statement for a plurality of dependent business user groups; and
translating the availability or the performance impact ascertained for all the business transactions on all the possible locations in a business impact statement for the business service.
38. (New) The method of claim 33, wherein the act of using the business impact information to manage the impact of events on the business services further comprises recording impact events for providing off-line reporting capabilities.
39. (New) The method of claim 33, wherein the act of using the business impact information to manage the impact of events on the business services further comprises running simulation sessions in parallel of a real-time session.

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40. (New) The method of claim 33, wherein the management backbone comprises an access layer for low-end monitoring, and wherein the method further comprises the step of configuring the access layer.

41. (New) The method of claim 40, wherein the management backbone comprises a plurality of production servers, and wherein configuring the access layer comprises:

installing a peer-to-peer server processor on each production server;

configuring the peer-to-peer server processor with a pre-packaged set of event structures, data structures, control structures, actions, and rules such that the peer-to-peer server processor is capable of capturing external events, using embedded instrumentation functions, applying mapping methods, and enforcing distributed management policies;

auto-discovering or declaring components of the infrastructure owned by the peer-to-peer server processor; and

referencing other components in dependency relationships, wherein the dependency relationships define at least one first component as a master resource and define at least one second component as a dependent resource.

42. (New) The method of claim 33, further comprising defining a domain of the infrastructure as a logical realm.

43. (New) The method of claim 42, wherein the act of defining the domain comprises:

linking the domain to at least one of the peer-to-peer domain processors configured to deliver abstraction services; and

linking each of the domain processors of the domain to one of the peer-to-peer object directory services processors.

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44. (New) The method of claim 43, further comprising:
associating at least one of the aggregates to one of the domains such that at least one of
the peer-to-peer domain processors will own the aggregate; and
decomposing the aggregate into at least one aggregation pattern used by the peer-to-peer
domain processor to query the peer-to-peer object directory services processor and
identify matching components of the infrastructure.
45. (New) The method of claim 33, further comprising branching each path onto at least one
of the aggregates creating an auditable snapshot of the path.
46. (New) The method of claim 33, further comprising defining an indicator of the
infrastructure as an accretion point for a range of events carrying information related to a same
operational parameter in a given management discipline.
47. (New) The method of claim 46, further comprising:
associating the indicator to an independent event source or a controlled event source;
setting appropriate event capture arguments for the indicator when associated to the
independent event source;
setting appropriate instrumentation arguments for the indicator when associated to the
controlled event source;
auto-associating at least one peer-to-peer server processor to the indicator; and
registering the indicator onto the at least one peer-to-peer server processor.